

DOCTORAL PROGRAMME IN BIOLOGY

Short list of the main selected courses from which the students are expected to choose depending on their research interest:

- Multivariate analysis of biological data
- Conservation biology
- Seed bank ecology
- Bryophyte ecology
- Spatial heterogeneity and its ecological consequences
- Behaviour genetics
- Cognitive ethology
- Human ethology
- Ethology
- Behaviour ecology
- Immunology seminars
- Signals and signal processing in the immune system
- Immunology of infections
- Immunopathology
- Links between innate and adaptive immunity
- Plant biotechnology
- Plant molecular biology
- Plant stress physiology
- Ultrastructural bases of plant cell functions
- Plant transformation and transgenic plants
- Genetic analysis
- Developmental genetics
- Gene technology and recombination
- Clinical human genetics
- Gene silencing, RNA interference
- Introduction to neurobiology
- Developmental biology
- Immuno-histo- and cytochemistry
- Biology of stem cells
- Tumor cell biology
- Molecular biology of learning and memory
- Neuronal cell differentiation
- Neurochemistry

- Behaviour physiology
- Electrophysiology
- Auxology
- Genetics of human growth
- Directed evolution in protein science
- Structural biology of DNA repair
- Structure and function of intrinsically disordered proteins
- Transient enzyme kinetics
- Fluorescence spectroscopy
- Biometry
- Biogeography
- Ecological informatics
- Molecular taxonomy in zoology
- Reproductive and feeding strategies
- Computer programming for biologists
- Seminars in evolutionary biology and ecology
- Evolutionary game theory
- Computer modelling in biology
- Models of prebiotic evolution